

MULTI-PLATFORM AIRCRAFT FORWARD POSITION
LIGHT UTILIZING LED-BASED LIGHT SOURCE

ABSTRACT OF THE DISCLOSURE

An aircraft forward position lighting device (1) has a modular
5 configuration, including a mounting module (20) containing solid-state
light sources, e.g., light-emitting diodes (LEDs) (210, 230). The mounting
module also includes reflectors 220. The pattern of light emanating from
the light sources and reflectors satisfy Federal Aviation Regulations
(FARs) regarding minimum light intensity. The device includes a cut-off
10 shield module (10) configured to provide angular cut-offs to the pattern of
light, so that the device satisfies FARs regarding overlap between position
lights. The device may also include a base assembly module (30) that
contains electronic circuitry connecting the light sources to a power
source in the aircraft. Electronic updates may be performed by replacing
15 the base assembly module.